A NEW LEAF-SPOT DISEASE OF POLYGONUM PERSICARIA

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(WITH PLATE 10)

In July of 1914 and August of 1916, Mr. W. W. Jones, botanist in the department of agricultural investigations, American Smelting & Refining Company, made collections of *Polygonum persicaria* L. showing an apparently new leaf-spot. An examination of the literature indicates that this leaf-spot disease has not been previously noted and that the organism is an undescribed species of *Septoria* quite different from the species of *Septoria* described as occurring upon Polygonum or related genera. From field observations it would seem that this type of leaf-spot is rather rare, only two small collections having been made as noted above. The description of the species is as follows:

Septoria persicariae sp. nov.

Maculis amphigenis subcircularibus, 1–8 mm. diam., sparsis v. saepe confluentibus, rubiginoso-brunneis dein centro griseo-brunneis v. griseis, anguste purpureo v. violaceo-limbatis; *pycnidiis* amphigenis, parcis v. numerosis, sparsis v. aggregatis, immersis, membranaceis, brunneis v. atro-brunneis, globosis 50–120 μ diam., osteolo depressis v. parvulo pertusis; *sporulis* hyalinis filiformibus utrinque obtusis v. attenuatis v. saepe uno apice latoribus altero gradatim attenuatis (sub-clavulatis), rectis, curvis v. saepe flexuosis, continuis v. indistincte pluriseptatis, saepe minute guttulatis, 17–60 $\times$ 1–3 μ, cirrose expulsis; basidiis non vivis.

Hab. in foliis vivis *Polygoni persicariae*, Salt Lake Valley, Utah, Amer. Bor. (Wyatt W. Jones).

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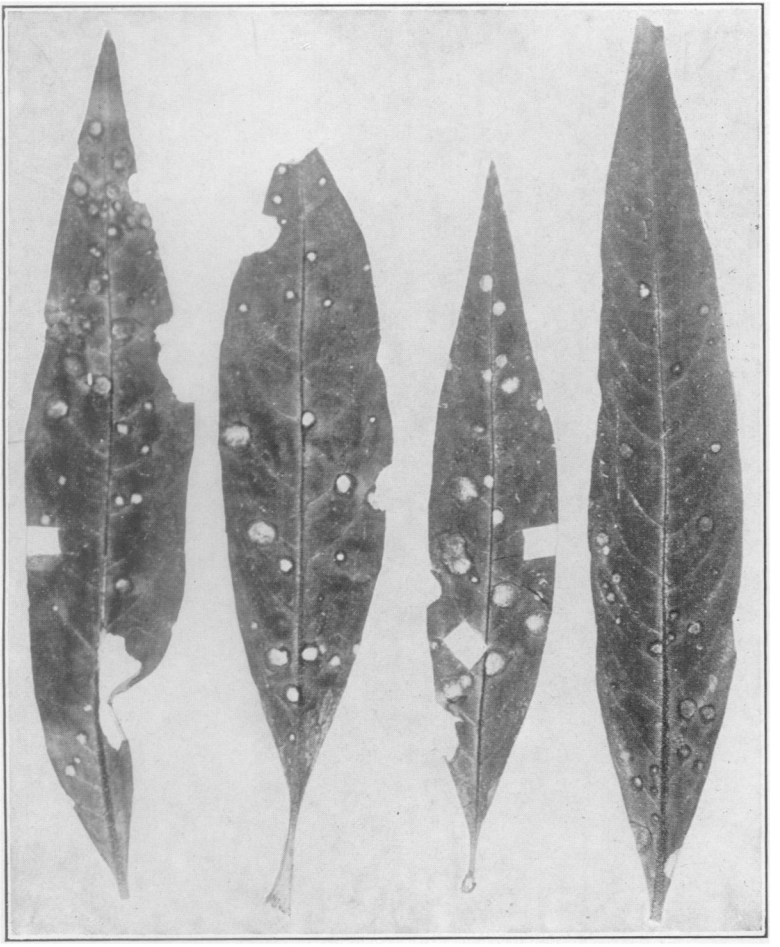

Photograph of type specimens of leaves of *Polygonum persicaria* L. infected with *Septoria persicariae* O'Gara. From the collection of Wyatt W. Jones, Salt Lake Valley, Utah, August 23, 1916